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IP Department			CHORBAJI, MONZER R	
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1600 Market Street			1744	
Philadelphia, PA 19103			DATE MAILED: 10/19/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
0.00	09/871,774	RICHARDSON ET AL.				
Office Action Summary	Examiner	Art Unit				
	MONZER R. CHORBAJI	1744				
The MAILING DATE of this communication appeariod for Reply	ppears on the cover sheet with t	he correspondence address				
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION IN 136(a). In no event, however, may a reply d will apply and will expire SIX (6) MONTHS ate, cause the application to become ABAND	TION. be timely filed from the mailing date of this communication. DONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 25	July 2005.					
3) Since this application is in condition for allow	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 1	1, 453 O.G. 213.				
Disposition of Claims						
4) ☐ Claim(s) <u>1-66</u> is/are pending in the application 4a) Of the above claim(s) is/are withdrest 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) <u>1-11,15-26,28-39,43-55,57-63,65 at 12-14,27,40-42,56 and 64 is/are object to restriction and 15 claim(s) are subject to restriction are subject to restriction and 15 claim(s) are subject to restriction are subje</u>	rawn from consideration. and 66 is/are rejected. jected to.					
Application Papers	•					
9) The specification is objected to by the Examir 10) The drawing(s) filed on 25 July 2005 is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examination is objected to by the Examination is objected.	a) accepted or b) objected or b) objected or b) objected e drawing(s) be held in abeyance. oction is required if the drawing(s) i	See 37 CFR 1.85(a). s objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Burea * See the attached detailed Office action for a list	nts have been received. Ints have been received in Application of the comments have been received au (PCT Rule 17.2(a)).	ication No ceived in this National Stage				
Attachment(s) 1) ☑ Notice of References Cited (PTO-892)	4) ☐ Interview Sumr	mary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Ma	ail Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	5) Notice of Inform 6) Other:	nal Patent Application (PTO-152)				

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DETAILED ACTION

This non-final action is in response to the amendment received on 07/25/2005

Remarks

- 1. The submitted changes to the specification and to the drawings have been accepted.
- 2. The Declaration 37 CFR 1.131 filed on 07/25/2005 is sufficient to overcome the Langhart U.S.P.N. 6,450,188 reference.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- 4. The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).
- 5. Claims 1, 5-7, 11, 16-18, 21-22, 24-26, 28-30, 32-35, 39 and 43-44 are rejected under 35 U.S.C. 102(e) as being anticipated by Langhart (U.S.P.N. 5,641,463).

With respect to claims 1, 20 and 30, the Langhart reference discloses a method (for example, col.5, lines 27-67 and col.6, lines 1-67) and an apparatus (figure 1) for fumigating produce including the following: placing goods on a surface (inherent step in order to fumigate goods), a canopy (must inherently be impermeable to flowable materials in order for successful fumigation to occur), an upper perimeter (figure 1:unlabeled upper frame), a lower perimeter (is equivalent to the bottom of the tarp. which is connected to the perimeter hose. The bottom of the tarp is capable of sustaining the lower portion of the canopy in a hanging down position in order to maintain a defined treatment area within the assembly for fumigating goods. This position is sustained in combination with the bottom of the tarp being connected to perimeter hose), the lower perimeter is movable with respect to the upper perimeter (figure 1:unlabeled upper frame and col.4, lines 61-67 and col.5, lines 1-5), a perimeter support (figure 1:48), and a gasket (figure 6:62. Page 10 of the specification teaches that a gasket can be a hollow rubber plastic tubing) that is deformed against the surface to seal the chamber (col.6, lines 26-35). The inherent weight of the water inside the hose causes deformation of the gasket against the floor) such that the gasket is capable of being compressed by the lower perimeter (gasket 62 and bottom of the tarp are connected such that the inherent weight of the tarp is capable of compressing gasket 62 against the floor), lowering the gasket (inherent step in order to fumigate goods), fumigating the produce (inherent step in order to fumigate goods) and venting the chamber (col.7, lines 1-6).

With respect to claims 5-9, 11, 15-18, 21-26, 28-29, 32-37, 39 and 43-44, the Langhart reference discloses the following: perimeter support includes a cable (34), means for moving the lower perimeter with respect to the upper perimeter (22), a collapsible duct in communication with the chamber (62), vent fan mountable on and extends through the canopy (col.7, lines 1-6), rubber tubing (col.6, lines 32-33), a perforated conduit (78), an intermediate support that includes a wire mesh (figure 1:unlabeled truss structure in the top of the device) for supporting both the upper and lower perimeters, raising the apparatus to expose the goods (col.4, lines 61-64), injecting methyl bromide, circulating the flowable material for a predetermined time within the chamber (figure 6:56), the lower perimeter is compressed toward the upper perimeter (col.6, lines 26-35) and lowering the lower perimeter away from the upper perimeter to form the chamber (figure 1:12).

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - Resolving the level of ordinary skill in the pertinent art.

- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 8. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 9. Claims 19, 45, 58-63 and 66 are rejected under 35 U.S.C. 103(a) as being unpatentable over Langhart (U.S.P.N. 5,641,463).

The teachings of the Langhart reference have previously been set forth with regard to claims 1, 5-7, 11, 16-18, 21-22, 24-26, 28-30, 32-35, 39 and 43-44. With respect to claim 58, the Langhart reference discloses a method (for example, col.5, lines 27-67 and col.6, lines 1-67) for fumigating produce including the following: placing goods on a surface (inherent step in order to fumigate goods), a canopy (must inherently be impermeable to flowable materials in order for successful fumigation to occur), an upper perimeter (figure 1:unlabeled upper frame), a lower perimeter (is equivalent to the bottom of the tarp, which is connected to the perimeter hose. The bottom of the tarp is capable of sustaining the lower portion of the canopy in a hanging down position in order to maintain a defined treatment area within the assembly for fumigating goods. This position is sustained in combination with the bottom of the tarp

being connected to perimeter hose), the lower perimeter is movable with respect to the upper perimeter (figure 1:unlabeled upper frame and col.4, lines 61-67 and col.5, lines 1-5), a perimeter support (figure 1:48), and a gasket (figure 6:62. Page 10 of the specification teaches that a gasket can be a hollow rubber plastic tubing) that is deformed against the surface to seal the chamber (col.6, lines 26-35). The inherent weight of the water inside the hose causes deformation of the gasket against the floor) such that the gasket is capable of being compressed by the lower perimeter (gasket 62) and bottom of the tarp are connected such that the inherent weight of the tarp is capable of compressing gasket 62 against the floor), lowering the gasket (inherent step in order to fumigate goods), fumigating the produce (inherent step in order to fumigate goods) and venting the chamber (col.7, lines 1-6). In addition, the Langhart reference teaches introducing a first flowable material (fumigant) and venting the first flowable material from the chamber (7, lines 1-6) such that a first negative pressure is created (inherent result of removing the fumigant from within the chamber). The Langhart reference goes on to teach that it is known in the art of fumigation (col.7, lines 4-5) to introduce fresh air (equivalent to a second flowable material) into the chamber. Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the method of the Langhart reference to include a fresh air injection step as a standard in the art of fumigation in order to shorten the time period dock personnel have to wait to enter the tent area safely (col.7, lines 1-9).

With respect to claims 19 and 45, the Langhart reference teaches that it is known in the art of fumigation to place flexible vinyl tubes on top of a tarp (columns 1-2).

Further, the Langhart reference teaches a lower perimeter (is equivalent to the unlabeled bottom of the tarp in figure 1), which is connected to the perimeter hose 62, i.e., gasket resulting in the canopy being positioned between the lower perimeter and the gasket. As a result, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the apparatus of the Langhart reference to add flexible vinyl tubes to the lower part of the tarp as is taught to be standard in the art of fumigation for better sealing of the chamber.

With respect to claims 59-63, the Langhart reference teaches the following: raising the apparatus to expose the goods for removal (col.4, lines 61-64), first flowable material is methyl bromide, circulating the fumigant after injecting (figure 6:56), the lower perimeter is compressed toward the upper perimeter (62) and lowering the lower perimeter away from the upper perimeter to form the chamber and second flowable material is supplied to the chamber through a cooling conduit (col.7, lines 5-6).

With respect to claim 66, the Langhart reference teaches that it is known in the art of fumigation to introduce fresh air into the chamber (col.7, lines 5-6) after removing (creating a negative pressure) the fumigant. As a result, it would have been to one having ordinary skill in the art at the time the invention was made to modify the method of the Langhart reference to include additional removal and aeration steps in order to shorten the time period dock personnel have to wait to enter the tent area safely (col.7, lines 1-9).

10. Claims 2-4 and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Langhart (U.S.P.N. 5,641,463) in view of Hemmelsbach (U.S.P.N. 3,925,942).

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The teachings of the Langhart reference have previously been set forth with regard to claims 1, 5-7, 11, 16-18, 21-22, 24-26, 28-30, 32-35, 39 and 43-44; however, with respect to claims 2 and 31, the Langhart reference teaches that the upper perimeter (figure 1:unlableled upper structure) includes an upper truss (figure 1:unlabled truss structure) and the perimeter support (48) includes an upper support chain (figure 1:unlabeled bar structure); however, the Langhart reference fails to teach that the lower perimeter includes a lower truss. The Hemmelsbach reference, which is in the art of designing truss structures, discloses the use of a lower truss (16). Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the apparatus of the Langhart reference by adding a lower truss to the lower perimeter as taught by the Hemmelsbach reference resulting in a considerable savings in materials and assembly time (col.2, lines 65-68).

With respect to claims 3-4, the Langhart reference teaches the upper truss includes a chain guide (46) and a stop block is connected t the lower support chain (54).

11. Claims 10 and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Langhart (U.S.P.N. 5,641,463) in view of Hubert et al (U.S.P.N. 4,956,042).

The teachings of the Langhart reference have previously been set forth with regard to claims 1, 5-7, 11, 16-18, 21-22, 24-26, 28-30, 32-35, 39 and 43-44; however, with respect to claims 10 and 38, the Langhart reference fails to teach that the gasket includes a solvent dispersed synthetic rubber resin adhesive; however, the Hubert reference, which is in the art of treating pipes, teaches the use of Armaflex (i.e., solvent dispersed synthetic rubber resin adhesive). Thus, it would have been obvious to one

having ordinary skill in the art at the time the invention was made to modify the gasket of the Langhart reference to include the compound Armaflex as taught by the Hubert reference since such material have the advantage of not becoming brittle (col.5, lines 50-55).

12. Claims 46, 48-49, 51-55, 57 and 65 are rejected under 35 U.S.C. 103(a) as being unpatentable over Langhart (U.S.P.N. 5,641,463) in view of Miyasak (JP 02-072820).

The teachings of the Langhart reference have previously been set forth with regard to claims 1, 5-7, 11, 16-18, 21-22, 24-26, 28-30, 32-35, 39 and 43-44; however, with respect to claims 46 and 65, the Langhart reference discloses an apparatus (figure 6) for fumigating goods including the following: a canopy (must inherently be impermeable to flowable materials in order for successful fumigation to occur), an upper perimeter (figure 1:upper bar), a lower perimeter (is equivalent to the bottom of the tarp. which is connected to the perimeter hose), the lower perimeter is movable with respect to the upper perimeter, a perimeter support (48), and a gasket (62. Page 10 of the specification teaches that a gasket can be a hollow rubber plastic tubing) that is deformable (col.6, lines 31-36, gasket 62 and bottom of the tarp are connected such that the inherent weight of the tarp is capable of compressing gasket 62 against the floor), a fumigation conduit (figure 6:66), a perforated vent (figure 6:76) and means for changing a pressure with the chamber (figure 6:exhaust fans). The Langhart reference fails to teach supplying chilled air to the chamber. The Miyasak reference, which is in the art of fumigating fruits and vegetables, teaches supplying the chamber with chilled air (purpose, lines 4-5). Thus, it would have been obvious to one having ordinary skill in

the art at the time the invention was made to modify the apparatus of the Langhart reference to include supplying chilled air to the chamber as disclosed by the Miyasak reference in order prevent rapid ripening of the fruits by cooling them (constitution, lines 12-13).

The features of claims 48-49, 51-55 and 57 have previously been addressed above with regard to claims 5-9, 11, 15-18, 21-26, 28-29, 32-37, 39 and 43-44.

13. Claim 47 is rejected under 35 U.S.C. 103(a) as being unpatentable over Langhart (U.S.P.N. 5,641,463) in view of Miyasak (JP 02-072820) and further in view of Hemmelsbach (U.S.P.N. 3,925,942).

The teachings of the Langhart reference have previously been set forth with regard to claims 1, 5-7, 11, 16-18, 21-22, 24-26, 28-30, 32-35, 39 and 43-44; however, with respect to claim 47, both the Langhart reference and Miyasak reference fail to teach that the lower perimeter includes a lower truss. The Hemmelsbach reference, which is in the art of designing truss structures, discloses the use of a lower truss (16). Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the apparatus of the Langhart reference by adding a lower truss to the lower perimeter as taught by the Hemmelsbach reference resulting in a considerable savings in materials and assembly time (col.2, lines 65-68).

14. Claim 50 is rejected under 35 U.S.C. 103(a) as being unpatentable over Langhart (U.S.P.N. 5,641,463) in view of Miyasak (JP 02-072820) and further in view of Hubert et al (U.S.P.N. 4,956,042).

The teachings of the Langhart reference have previously been set forth with regard to claims 1, 5-7, 11, 16-18, 21-22, 24-26, 28-30, 32-35, 39 and 43-44; however, with respect to claim 50, both the Langhart reference and Miyasak reference fail to teach that the gasket includes a solvent dispersed synthetic rubber resin adhesive. The Hubert reference, which is in the art of treating pipes, teaches the use of Armaflex (i.e., solvent dispersed synthetic rubber resin adhesive). Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the gasket of the Langhart reference to include the compound Armaflex as taught by the Hubert reference since such material have the advantage of not becoming brittle (col.5, lines 50-55).

15. Claims 1, 5-9, 11, 15-26, 28-30, 32-37, 39, 43-45, 58-63 and 66 are rejected under 35 U.S.C. 103(a) as being unpatentable over Langhart (U.S.P.N. 5,641,463) in view of Redden (U.S.P.N. 3,682,225).

With respect to claims 1, 20, 30 and 58, the Langhart reference discloses a method (for example, columns 5-6) and an apparatus (figure 6) for fumigating produce including the following: placing goods on a surface (inherent step in order to fumigate goods), a canopy (must inherently be impermeable to flowable materials in order for successful fumigation to occur), an upper perimeter (62), a lower perimeter (is equivalent to the bottom of the tarp, which is connected to the perimeter hose. The bottom of the tarp is capable of sustaining the lower portion of the canopy in a hanging down position in order to maintain a defined treatment area within the assembly for fumigating goods. This position is sustained in combination with the bottom of the tarp

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being connected to perimeter hose), the lower perimeter is movable with respect to the upper perimeter (unlabeled upper bars), a perimeter support (48), fumigating the produce (inherent step in order to fumigate goods), venting the chamber (inherent step since fumigants are toxic to human, col.3, lines 45-49), lowering the apparatus (inherent step in order to fumigate goods), introducing a first flowable material (fumigant) and venting the first flowable material from the chamber (col.9, lines 51-53) such that a first negative pressure is created (inherent result of removing the fumigant from within the chamber). The Langhart reference goes on to teach that it is known in the art of fumigation (col.6, lines 37-39) to introduce fresh air (equivalent to a second flowable material) into the chamber. However, with respect to claims 1, 20, 30 and 58, the Langhart reference fails to teach the use of a gasket. The Redden reference, which is in the art of designing closures for structures, teaches the use of gaskets (col.4, lines 56-57) in combination with doors. Thus, even if the hose of the Langhart reference is not a "gasket" because it is used to seal the device, it would have been obvious to one of ordinary skill in the art to substitute well known and conventional gasket means as evidenced by the Redden reference (col.4, line 57).

With respect to claims 5-9, 11, 15-18, 21-26, 28-29, 32-37, 39 and 43-44, the Langhart reference discloses the following: perimeter support includes a cable (213), means for moving the lower perimeter with respect to the upper perimeter (206), a collapsible duct in communication with the chamber (col.9, lines 51-52 and lines 65-67), vent fan mountable on and extends through the canopy (col.9, lines 51-52 and lines 65-67), rubber tubing (col.3, lines 35-37), a perforated conduit (col.9, lines 65-67 and col.1,

lines 32-35), an intermediate support that includes a wire mesh (frame that makes 301) for supporting both the upper and lower perimeters (302), raising the apparatus to expose the goods (col.7, lines 60-64), injecting methyl bromide (col.1, lines 21-22), circulating the flowable material for a predetermined time within the chamber (col.9, lines 62-63), the lower perimeter is compressed toward the upper perimeter (206) and lowering the lower perimeter away from the upper perimeter to form the chamber (206 and col.7, lines 60-61).

With respect to claims 19 and 45, the Langhart reference teaches that it is known in the art of fumigation to place flexible vinyl tubes on top of a tarp (col.1, lines 40-45 and figure 4). Further, the Langhart reference teaches a lower perimeter (is equivalent to the unlabeled bottom of the tarp 304), which is connected to the perimeter hose 305. However, the Langhart reference, fails to teach the use of a gasket. The Redden reference, which is in the art of designing closures for structures, teaches the use of gaskets (col.4, lines 56-57) in combination with doors. Thus, even if the hose of the Langhart reference is not a "gasket" because it is used to seal the device, it would have been obvious to one of ordinary skill in the art to substitute well known and conventional gasket means as evidenced by the Redden reference (col.4, line 57).

With respect to claims 59-63, the Langhart reference teaches the following: raising the apparatus to expose the goods for removal (col.7, lines 60-64), first flowable material is methyl bromide (col.1, lines 21-22), circulating the fumigant after injecting (col.9, lines 62-63), the lower perimeter is compressed toward the upper perimeter (206) and lowering the lower perimeter away from the upper perimeter to form the chamber

(206 and col.7, lines 60-61) and second flowable material is supplied to the chamber through a cooling conduit (col.6, lines 37-39).

With respect to claim 66, the Langhart reference teaches that it is known in the art of fumigation to introduce fresh air into the chamber (col.6, lines 37-39) after removing (creating a negative pressure) the fumigant (col.6, lines 33-34). As a result, it would have been to one having ordinary skill in the art at the time the invention was made to modify the method of the Langhart reference to include additional removal and aeration steps in order to shorten the time period dock personnel have to wait to enter the tent area safely (col.6, lines 39-41).

16. Claims 2-4 and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Langhart (U.S.P.N. 5,641,463) in view of Redden (U.S.P.N. 3,682,225) and further in view of Hemmelsbach (U.S.P.N. 3,925,942).

With respect to claims 2 and 31, the Langhart reference teaches that the upper perimeter (301) includes an upper truss (truss structure of 301) and the perimeter support (209) includes an upper support chain (213); however, the Langhart reference and the Redden reference both fail to teach that the lower perimeter includes a lower truss. The Hemmelsbach reference, which is in the art of designing truss structures, discloses the use of a lower truss (16). Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the apparatus of the Langhart reference by adding a lower truss to the lower perimeter as taught by the Hemmelsbach reference resulting in a considerable savings in materials and assembly time (col.2, lines 65-68).

With respect to claims 3-4, the Langhart reference teaches the upper truss includes a chain guide (203) and a stop block is connected to the lower support chain (206 and 221).

17. Claims 10 and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Langhart (U.S.P.N. 5,641,463) in view of Redden (U.S.P.N. 3,682,225) and further in view of Hubert et al (U.S.P.N. 4,956,042).

With respect to claims 10 and 38, the Langhart reference fails to teach the use of a gasket and the Redden reference teaches the use of gaskets in combination with doors but fails to teach that gaskets include a solvent dispersed synthetic rubber resin adhesive. The Hubert reference, which is in the art of treating pipes, teaches the use of Armaflex (i.e., solvent dispersed synthetic rubber resin adhesive). Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the gasket of the Redden reference to include the compound Armaflex as taught by the Hubert reference since such material have the advantage of not becoming brittle (col.5, lines 50-55).

18. Claims 46, 48-49, 51-55, 57 and 65 are rejected under 35 U.S.C. 103(a) as being unpatentable over Langhart (U.S.P.N. 5,641,463) in view of Redden (U.S.P.N. 3,682,225) and further in view of Miyasak (JP 02-072820).

With respect to claims 46 and 65, the Langhart reference discloses an apparatus (figure 7) for fumigating goods including the following: a canopy (must inherently be impermeable to flowable materials in order for successful fumigation to occur), an upper perimeter (301), a lower perimeter (is equivalent to the bottom of the tarp, which is

connected to the perimeter hose), the lower perimeter is movable with respect to the upper perimeter (206 and 301), a perimeter support (209), a fumigation conduit (col.9, lines 65-67 and col.1, lines 32-35), a perforated vent (col.9, lines 51-53) and means for changing a pressure with the chamber (col.9, line 52). The Langhart reference fails to teach using gaskets and supplying chilled air to the chamber. The Redden reference, which is in the art of designing closures for structures, teaches the use of gaskets (col.4, lines 56-57) in combination with doors. Thus, even if the hose of the Langhart reference is not a "gasket" because it is used to seal the device, it would have been obvious to one of ordinary skill in the art to substitute well known and conventional gasket means as evidenced by the Redden reference (col.4, line 57).

Both the Langhart reference and the Redden reference fail to teach supplying chilled air to the chamber. The Miyasak reference, which is in the art of fumigating fruits and vegetables, teaches supplying the chamber with chilled air (purpose, lines 4-5). Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the apparatus of the Langhart reference to include supplying chilled air to the chamber as disclosed by the Miyasak reference in order prevent rapid ripening of the fruits by cooling them (constitution, lines 12-13).

The features of claims 48-49, 51-55 and 57 have previously been addressed above with regard to claims 5-9, 11, 15-18, 21-26, 28-29, 32-37, 39 and 43-44.

19. Claim 47 is rejected under 35 U.S.C. 103(a) as being unpatentable over Langhart (U.S.P.N. 5,641,463) in view of Redden (U.S.P.N. 3,682,225) and further in view of Miyasak (JP 02-072820) and Hemmelsbach (U.S.P.N. 3,925,942).

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With respect to claim 47, the Langhart reference, the Redden reference and the Miyasak reference fail to teach that the lower perimeter includes a lower truss. The Hemmelsbach reference, which is in the art of designing truss structures, discloses the use of a lower truss (16). Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the apparatus of the Langhart reference by adding a lower truss to the lower perimeter as taught by the Hemmelsbach reference resulting in a considerable savings in materials and assembly time (col.2, lines 65-68).

20. Claim 50 is rejected under 35 U.S.C. 103(a) as being unpatentable over Langhart (U.S.P.N. 5,641,463) in view of Redden (U.S.P.N. 3,682,225) and further in view of Miyasak (JP 02-072820) and Hubert et al (U.S.P.N. 4,956,042).

With respect to claim 50, both the Langhart reference and Miyasak reference fail to teach the use of a gasket and the Redden reference teaches using gaskets in combination with doors, but fails to teach that gaskets include a solvent dispersed synthetic rubber resin adhesive. The Hubert reference, which is in the art of treating pipes, teaches the use of Armaflex (i.e., solvent dispersed synthetic rubber resin adhesive). Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the gasket of the Redden reference to include the compound Armaflex as taught by the Hubert reference since such material have the advantage of not becoming brittle (col.5, lines 50-55).

Allowable Subject Matter

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21. Claims 12-14, 27, 40-42, 56 and 64 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

22. Applicant's arguments with respect to claims 1-66 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

- 23. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MONZER R. CHORBAJI whose telephone number is (571) 272-1271. The examiner can normally be reached on M-F 6:30-3:00.
- 24. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JOHN KIM can be reached on (571) 272-1142. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 25. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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